



FORMCEM

Cementitious Systems

FORMPATCH Rapid Set Repair Compound

Description

A cementitious powder compound with the inclusion of a polymer to promote adhesion and resistance to passage of water, and a water reducing agent to facilitate a low water cement ratio. The mortar sets within minutes and develops compressive strengths within hours in excess of fully cured concrete.

FORMPATCH is available in colours **GREY** and **WHITE**. These can be blended to match most shades of concrete.

Typical applications

- Rapid-set High-strength repairs to:
- Precast concrete units
- Damaged insitu concrete
- Repairs to honeycombing
- Concrete pipe spigots and sockets
- Damaged concrete floors and steps

Typical data

Mix Ratio (water/powder):	1: 6 by weight
Setting Time (250 cc mass):	10 mins @ 20°C
	15 mins @ 10°C
	25 mins @ 5°C

Compressive Strength (MPa) @ 15°C,	10 @ 1 Hr
W/P Ratio 1:6 by weight	20 @ 3 Hrs
	35 @ 24 Hrs
	40 @ 28 Days

Yield for Estimating Purposes: 500 cc/kg, equivalent to 2000 Kg/m³

Instructions for Use

Ensure surface is sound, clean, and free from laitance, loose materials, oil, grease or other surface contaminants. If necessary hack surface back to reach a sound plane.

Damp down surface with clean water to minimise suction. Place a quantity of **FORMPATCH** into a clean container and mix in clean water little by little, using the minimum necessary, to achieve the required heavy paste-like consistency. If blending colours grey and white to achieve a colour match ensure the two powders are thoroughly blended before the addition of water. To avoid wastage do not mix more material than can be used within the setting time of the material.

FORMPATCH compounds are best applied in situations up to a maximum of 20mm thickness per layer. Please consult **FORMCEM** for repairs in thicker sections.

Immediately after completion of mixing apply by clean steel trowel pressing firmly onto surface smoothing and finishing with trowel or float kept moist and clean.

Clean tools and equipment with water before material has hardened.

formworkdirect.co.uk
TEL:
(+44) (0)151 532 0179
EMAIL
sales@formworkdirect.co.uk



formworkdirectmalta.com
TEL:
(+356) 9947 3031
EMAIL
sales@formworkdirectmalta.com



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Due to moisture retention of the polymer no special curing procedure is generally necessary excepting in high ambient temperatures or windy conditions when it is advisable to take precautions to prevent rapid drying of the compound.

Storage

Store in dry conditions and keep container sealed when not in use. Shelf life when stored correctly is 12 months for pails and 6 months for sacks.

Packaging 25, 16 and 8Kg pails, 25Kg sacks.

Health and safety

In common with other cementitious materials **FORMPATCH** is alkaline and therefore contact with skin and eyes should be avoided. If contact with skin should occur wash affected area well. Should material enter eyes irrigate thoroughly with clean water and if discomfort continues seek medical advice without delay.

Refer to separate **FORMPATCH** Health and Safety sheet.

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